CLAIMS

What is claimed is:

1	A drill steel for securing boits in a mine root, comprising:
2	a head having a first end engageable with a roof bolt, and an extension on a
3	second end of said head extending therefrom, said extension having a machined recess
4	formed therein;
5	a collar having an opening therethrough; and
6	a body having a first end and a second end, wherein:
7	said first end is adapted for establishing a press fit connection
8	between said first end of said body and said machined recess of said
9	socket extension, and
10	said second end is adapted for establishing a press fit connection
11	between said collar and said second end of said body;
12	wherein both said first end and said second end of said body and
13	said machined recess in said socket extension are formed as polygonal
14	in cross section.
1	2. The drill steel of Claim 1 wherein said first end of said body is square in cross section
2	and said socket recess is likewise square.
1	3. The drill steel of Claim 1 wherein said second end of said body is hexagonal in cross
2	section and the opening of said collar conforms thereto.

The drill steel of Claim 1 wherein both of said polygonal surfaces on said body are square 1 4. in cross section. 2 5. The drill steel of Claim 1 wherein both of said polygonal surfaces on said body are 1 2 rectangular in cross section. 1 6. The drill steel of Claim 1 wherein both of said polygonal surfaces on said body are 2 hexagonal in cross section. 1 The drill steel of Claim 1 wherein said first end is adapted for establishing a press fit connection between said first end of said body and said machined recess of said extension by 2 having machined surfaces on said first end of said body. 3 The drill steel of Claim 1 wherein said second end is adapted for establishing a press fit 1 2 connection between said collar and said second end of said body by having machined surfaces on said second end of said body. 3 1 The drill steel of Claim 1 wherein said first end of said head defines a socket for engaging said roof bolts. 2 The drill steel of Claim 1 wherein: 10. 1 said first end is adapted for establishing a press fit connection between said first 2 end of said body and said machined recess of said extension by having machined surfaces 3

on said first end of said body;

said second end is adapted for establishing a press fit connection between said collar and said second end of said body by having machined surfaces on said second end of said body; and

said machined surfaces on said second end of said body are longer than said machined surfaces on said first end of said body.

11. A drill steel for securing bolts in a mine roof, comprising:

a generally elongate body, said body having a first machined end machined into the form of a polygon in cross-section, and a second machined end opposite said first machined end, said second machined end machined into the form of a polygon in crosssection;

a socket, said socket comprising a first end engageable with a bolt, and an extension extending from a second end of said socket and press-fit onto said first machined end of said elongate body, said extension having a machined recess formed therein defined by a plurality of walls extending into said extension, said plurality of walls defining a perimeter of said machined recess, said perimeter of said machined recess being dimensioned to form a press-fit connection between said extension and said first end of said elongate body; and

an annular collar press-fit onto said second machined end of said elongate body, said annular collar having a machined opening extending therethrough and defining a perimeter of said machined opening, said perimeter of said machined opening being

- dimensioned to form a press-fit connection between said annular collar and said second end of said elongate body.
- 1 12. The drill steel of Claim 11 wherein said first machined end of said body is square in cross
- 2 section and said socket recess is likewise square.
- 1 13. The drill steel of Claim 11 wherein said second machined end of said body is hexagonal
- 2 in cross section and the machined opening of said collar conforms thereto.
- 1 14. The drill steel of Claim 11 wherein both said first machined end and said second
- 2 machined end of said body are rectangular in cross section.
- 1 15. The drill steel of Claim 11 wherein both said first machined end and said second
- 2 machined end of said body are square in cross section.
- 1 16. The drill steel of Claim 11 wherein both said first machined end and said second
- 2 machined end of said body are hexagonal in cross section.
- 1 17. The drill steel of Claim 11 wherein said second machined end of said body is longer than
- 2 said first machined end of said body.